

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P145130

Luminaire Tested: **LDRL-SL3-E02-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145130
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-E02-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5937.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

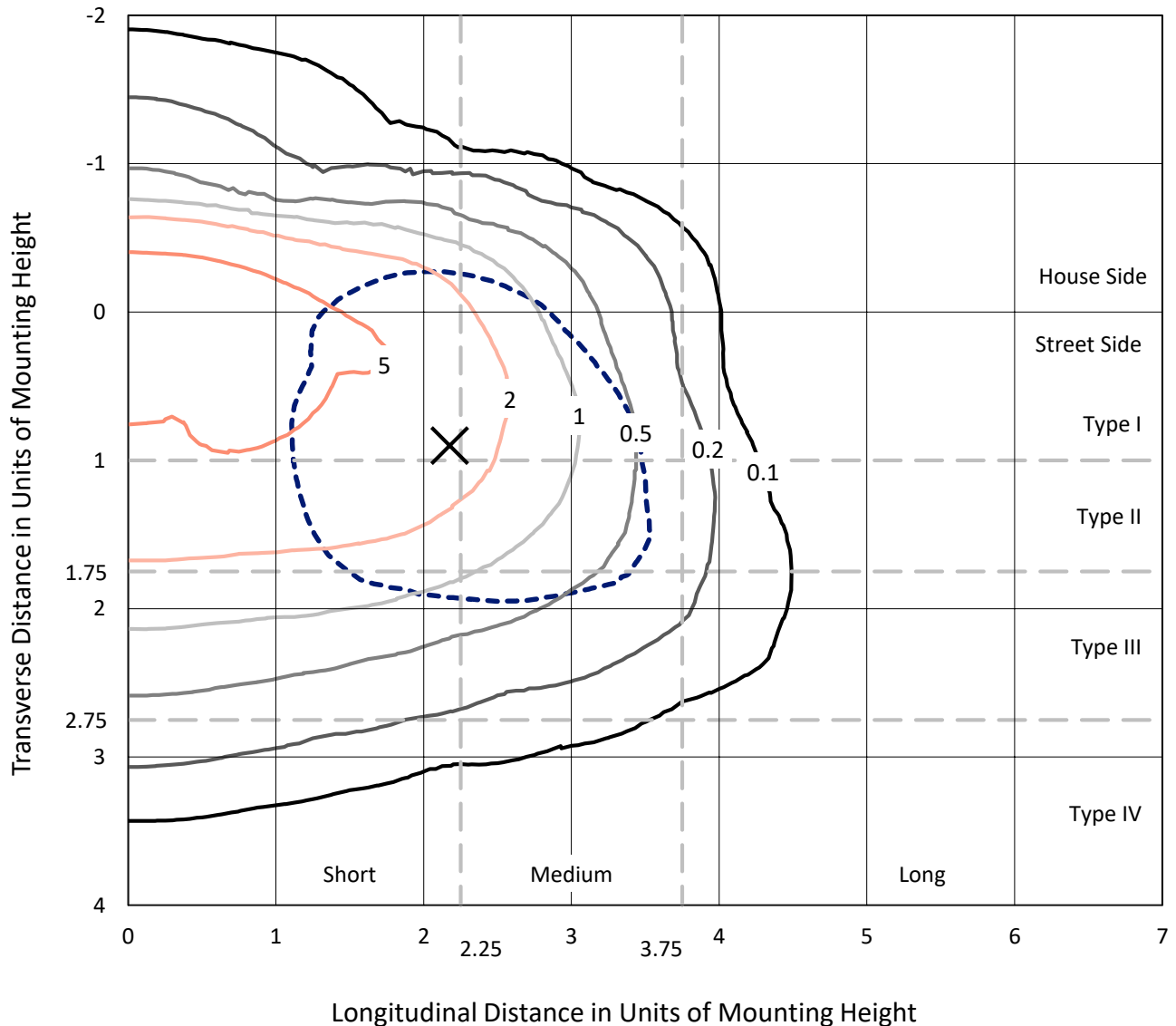
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

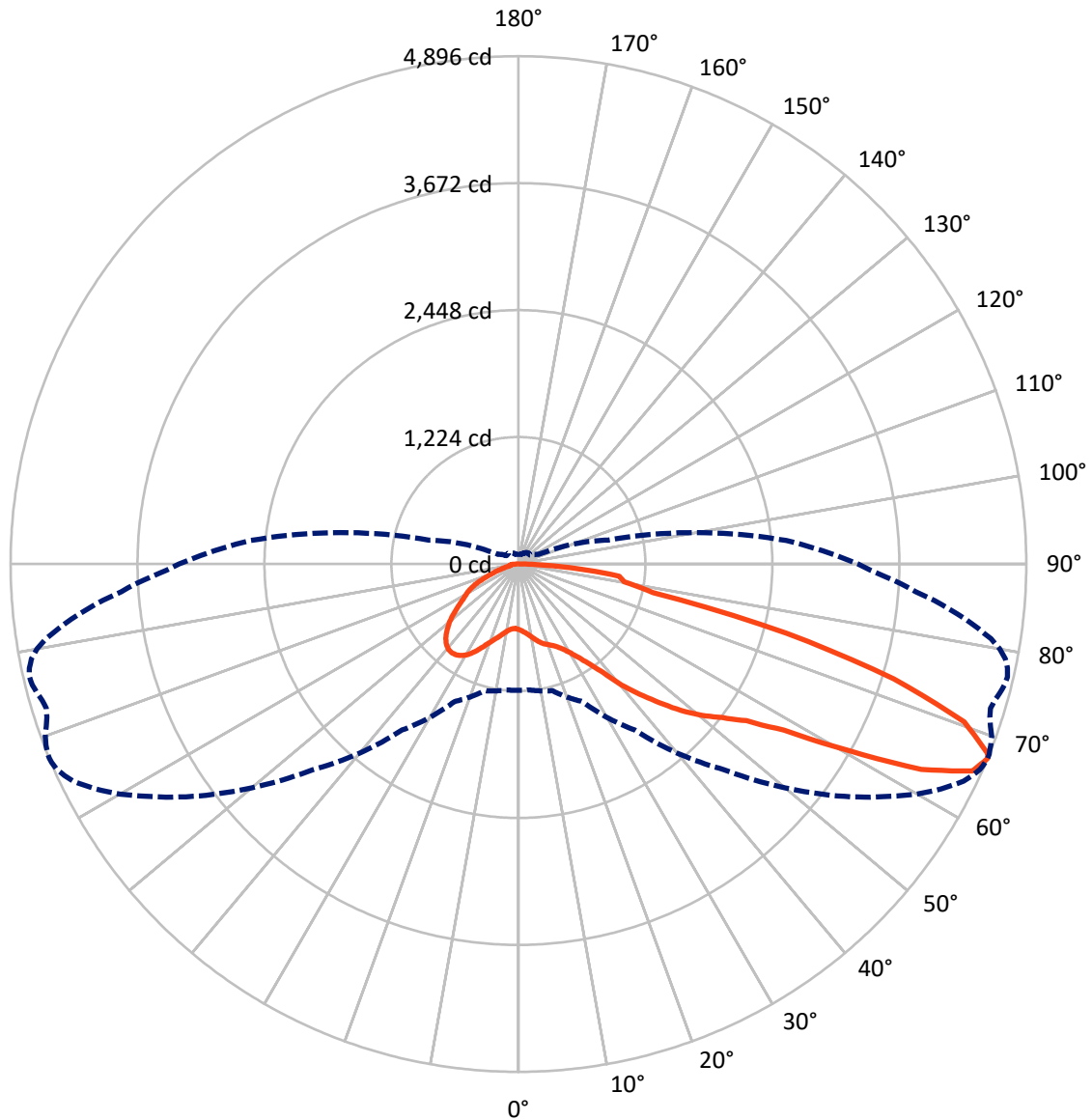
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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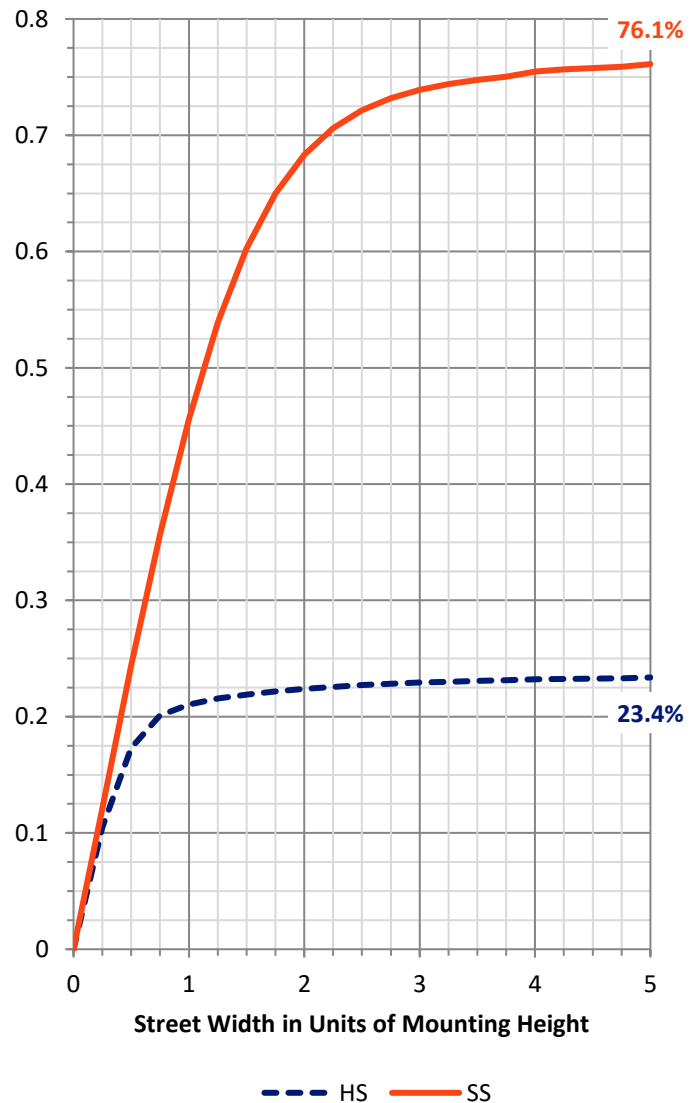
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.9	0.0	1405.9
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	4531.4	0.0	4531.4
	% Fixture	76.3	0.0	76.3
Total	Lumens	5937.4	0.0	5937.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	215.9	3.6
20°-30°	384.3	6.5
30°-40°	559.8	9.4
40°-50°	862.5	14.5
50°-60°	1263.1	21.3
60°-70°	1677.3	28.3
70°-80°	790.6	13.3
80°-90°	120.9	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5937.4	100.0
0°-180°	5937.4	100.0



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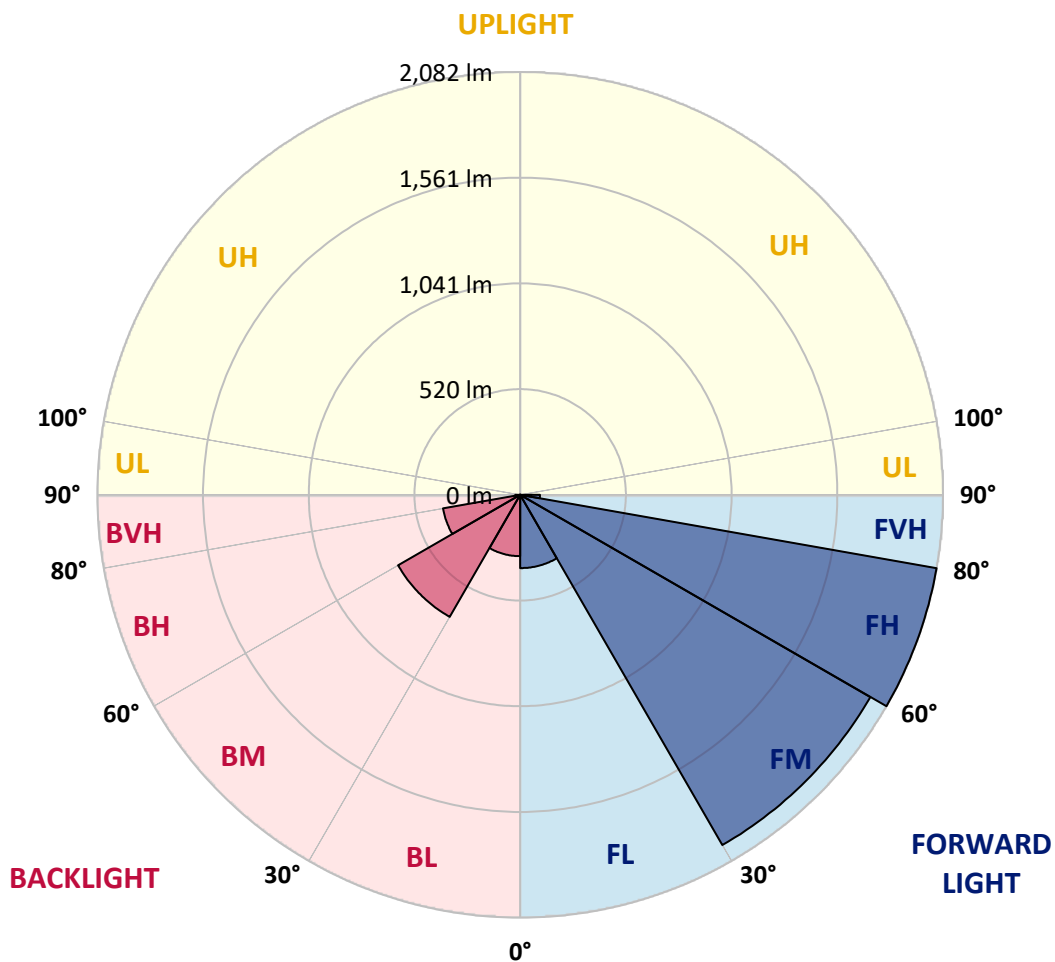
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.9	6.1			
FM	(30°-60°)	1991.1	33.5			
FH	(60°-80°)	2082.0	35.1			G2/5000
FVH	(80°-90°)	97.4	1.6			G1/100
BL	(0°-30°)	302.2	5.1	B1/500		
BM	(30°-60°)	694.3	11.7	B1/1000		
BH	(60°-80°)	386.0	6.5	B1/500		G1/500
BVH	(80°-90°)	23.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
2.5°	663.2	660.4	660.8	662.0	658.0	656.0	651.6	648.8	648.4	648.0	646.4
5°	702.0	699.2	700.4	697.2	689.6	684.4	675.2	670.4	669.6	668.8	666.8
7.5°	742.4	738.8	734.8	731.2	722.8	714.4	702.4	695.2	694.4	693.2	692.0
10°	790.4	785.2	782.0	770.8	756.4	744.8	732.8	725.2	724.8	723.6	721.2
12.5°	844.4	838.8	832.8	818.0	795.6	778.4	764.4	760.0	756.4	756.8	754.4
15°	898.0	892.0	884.0	865.2	835.6	810.0	792.0	785.6	786.0	784.0	785.2
17.5°	943.2	938.0	926.4	902.4	868.0	832.8	810.0	807.2	808.0	807.6	808.8
20°	972.8	969.6	952.0	923.2	884.4	845.6	822.4	822.4	822.8	824.4	827.2
22.5°	990.8	986.0	962.8	922.4	884.0	851.6	833.6	837.6	840.0	841.2	845.6
25°	1000.8	994.8	963.2	909.6	870.4	856.0	850.4	860.4	864.4	866.4	873.6
27.5°	1000.8	993.6	958.0	893.6	854.8	869.2	882.4	899.6	902.4	908.4	916.8
30°	989.6	984.0	950.0	881.6	850.8	894.0	934.0	953.6	960.4	967.2	978.0
32.5°	977.6	972.8	946.0	888.0	873.2	946.0	1012.8	1039.6	1043.6	1049.2	1060.4
35°	976.8	975.2	963.6	928.8	940.8	1041.2	1131.6	1150.0	1161.2	1164.0	1168.8
37.5°	985.2	988.4	998.4	994.8	1038.0	1182.8	1287.2	1324.0	1332.8	1328.0	1332.4
40°	1004.8	1012.8	1050.0	1096.0	1186.4	1354.0	1499.2	1541.6	1551.2	1548.4	1547.2
42.5°	1066.8	1077.6	1132.4	1230.8	1340.8	1531.2	1696.0	1741.6	1744.8	1746.4	1736.0
45°	1164.0	1170.0	1242.8	1368.4	1508.0	1722.0	1892.4	1943.2	1941.2	1933.2	1925.6
47.5°	1274.4	1286.8	1374.0	1526.0	1680.8	1898.4	2091.2	2140.8	2145.2	2138.0	2124.0
50°	1374.8	1384.4	1482.8	1663.2	1833.2	2045.2	2258.8	2308.8	2308.0	2312.0	2316.0
52.5°	1454.0	1462.8	1556.4	1754.8	1945.2	2168.4	2385.2	2446.8	2456.4	2462.8	2470.8
55°	1494.8	1504.0	1590.4	1792.8	2013.2	2288.8	2531.2	2619.6	2636.0	2650.4	2663.6
57.5°	1495.6	1507.6	1586.8	1790.0	2048.4	2396.4	2724.4	2883.2	2906.4	2943.2	2988.4
60°	1471.2	1488.0	1559.2	1764.0	2088.8	2532.8	3042.8	3346.8	3392.4	3456.8	3514.8
62.5°	1407.6	1424.4	1488.0	1698.0	2136.0	2707.6	3502.8	3948.4	4045.6	4116.8	4231.6
65°	1307.2	1323.2	1376.8	1588.8	2098.4	2845.6	3845.6	4380.0	4479.2	4568.4	4703.2
67°	1217.6	1219.2	1264.4	1463.6	1952.0	2802.8	3914.4	4437.6	4529.2	4619.6	4776.0
67.5°	1186.0	1194.8	1230.0	1422.0	1896.4	2771.2	3887.2	4406.4	4495.2	4591.6	4751.2
70°	958.8	961.2	995.2	1134.4	1504.8	2297.6	3491.6	4008.4	4069.2	4210.4	4367.2
72.5°	584.8	580.8	591.6	694.8	990.4	1591.2	2795.6	3300.0	3383.2	3503.6	3609.6
75°	322.0	341.2	354.4	426.0	556.4	935.6	1903.6	2387.6	2509.6	2581.2	2602.4
77.5°	196.8	195.2	201.2	274.8	456.4	640.0	1051.6	1400.8	1468.8	1489.2	1410.4
80°	93.6	97.2	96.0	113.2	221.2	540.0	735.2	899.6	934.0	953.6	979.2
82.5°	51.2	53.2	60.4	67.6	87.2	232.4	634.4	829.6	852.8	886.4	924.0
85°	32.0	33.6	46.4	48.8	53.6	71.6	264.4	484.8	504.4	571.2	592.4
87.5°	13.2	14.4	25.2	22.8	27.2	25.2	80.0	123.2	130.8	139.2	154.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
2.5°	646.8	646.4	644.8	644.4	645.2	645.2	644.4	643.2	642.8	642.4	641.6
5°	666.0	665.2	664.0	663.2	662.8	662.8	661.6	660.4	659.2	657.6	657.2
7.5°	688.8	688.8	688.4	687.2	686.0	684.4	683.2	682.0	680.8	680.0	678.8
10°	718.8	720.4	717.6	716.8	716.4	714.0	713.6	712.4	711.6	709.6	709.6
12.5°	754.4	752.8	752.4	750.8	750.8	749.6	749.2	748.8	748.0	746.4	746.0
15°	784.0	784.0	783.6	782.8	783.6	782.8	781.6	782.4	781.2	781.6	780.4
17.5°	808.0	809.6	809.2	809.6	809.2	809.2	810.0	810.0	810.8	809.2	809.6
20°	828.0	830.4	831.6	830.8	831.6	832.0	834.0	834.8	836.0	836.8	836.8
22.5°	848.8	852.0	854.4	854.4	856.0	857.6	861.2	862.0	864.8	864.4	866.4
25°	878.0	883.2	884.8	887.2	889.2	892.0	896.4	898.4	899.6	902.4	905.6
27.5°	922.8	929.2	930.4	933.2	938.4	940.0	944.8	946.8	951.2	957.2	958.4
30°	984.0	992.0	992.4	995.6	1001.6	1003.6	1007.6	1012.8	1016.4	1022.4	1022.8
32.5°	1067.2	1075.2	1074.0	1080.0	1079.6	1085.6	1084.4	1092.4	1095.6	1098.8	1107.6
35°	1178.0	1177.2	1183.2	1185.2	1184.0	1188.8	1188.0	1191.6	1194.8	1194.8	1204.4
37.5°	1337.6	1336.4	1335.6	1327.2	1325.2	1325.6	1324.0	1327.2	1322.0	1322.0	1332.4
40°	1551.6	1544.4	1538.8	1533.2	1527.6	1520.0	1513.6	1512.0	1503.2	1502.8	1498.8
42.5°	1737.6	1730.8	1726.8	1716.0	1710.4	1709.2	1693.6	1689.2	1686.8	1688.4	1684.4
45°	1932.8	1925.6	1910.4	1905.6	1904.0	1895.6	1893.2	1882.4	1879.2	1884.8	1882.8
47.5°	2134.0	2123.6	2115.2	2109.6	2107.6	2100.4	2090.0	2098.8	2094.4	2091.2	2085.2
50°	2314.8	2303.2	2303.2	2293.2	2294.8	2290.0	2279.2	2281.6	2269.2	2274.0	2270.8
52.5°	2466.4	2467.2	2471.2	2460.0	2462.0	2462.0	2458.4	2446.8	2450.0	2448.4	2456.0
55°	2659.2	2672.4	2665.2	2667.2	2669.6	2680.8	2688.8	2682.0	2670.8	2679.6	2704.0
57.5°	2996.4	3008.4	3015.6	3021.2	3030.4	3035.6	3078.8	3084.8	3072.0	3098.4	3152.8
60°	3582.8	3597.2	3618.8	3647.2	3653.2	3689.6	3712.0	3738.4	3748.0	3770.8	3829.2
62.5°	4288.0	4320.4	4324.4	4360.4	4388.4	4354.4	4363.2	4395.6	4358.8	4409.2	4411.6
65°	4749.6	4796.8	4798.4	4811.6	4822.0	4790.0	4775.6	4761.2	4726.4	4724.4	4759.2
67°	4828.8	4872.0	4890.0	4896.4	4894.8	4878.4	4854.8	4813.2	4779.6	4760.4	4774.8
67.5°	4806.4	4848.8	4874.0	4880.0	4880.4	4864.4	4842.8	4797.6	4766.0	4744.4	4759.6
70°	4438.4	4537.6	4580.8	4558.4	4571.2	4571.2	4570.4	4528.8	4513.2	4492.4	4484.4
72.5°	3690.4	3759.2	3814.0	3784.8	3788.4	3815.6	3809.2	3813.6	3768.8	3764.0	3690.0
75°	2643.6	2665.6	2647.2	2668.0	2556.0	2516.0	2448.0	2348.8	2322.8	2281.6	2158.4
77.5°	1404.4	1379.6	1330.4	1326.4	1280.4	1244.8	1200.8	1172.0	1099.2	1058.8	966.4
80°	992.0	1004.0	1022.8	1034.0	1044.4	1052.4	1036.0	990.0	929.2	861.2	796.8
82.5°	947.6	964.0	975.2	980.8	976.8	964.0	926.4	882.4	801.2	742.4	672.8
85°	597.6	610.8	588.0	583.2	593.2	512.4	468.0	432.0	350.0	325.6	287.6
87.5°	160.4	169.2	169.6	164.4	161.2	142.0	125.6	111.2	92.0	86.4	70.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
2.5°	641.6	641.2	641.2	640.0	639.2	638.8	638.4	637.2	636.4	636.4	636.0
5°	656.8	656.0	654.8	654.4	652.8	652.0	650.4	649.6	648.4	647.6	647.2
7.5°	678.4	676.4	674.0	674.4	672.0	670.8	670.0	668.4	667.2	666.0	665.6
10°	707.2	706.8	704.4	705.2	700.8	702.8	698.8	699.2	696.8	694.4	694.0
12.5°	744.0	743.6	741.2	738.4	737.6	738.0	735.6	736.0	733.2	732.4	731.6
15°	779.2	778.4	777.2	775.2	774.0	773.6	772.8	772.0	769.6	769.6	766.8
17.5°	809.6	810.0	808.4	806.8	806.0	804.8	804.4	804.4	802.4	800.4	800.8
20°	836.4	837.2	837.2	836.0	836.4	835.6	835.2	836.0	834.0	833.2	832.0
22.5°	866.4	866.4	866.8	867.6	868.8	869.2	869.2	868.4	867.2	866.8	864.4
25°	908.0	906.4	908.4	909.2	909.2	911.2	910.4	910.8	911.2	910.0	908.8
27.5°	960.4	958.8	962.8	965.6	965.2	966.4	968.8	966.0	967.6	968.8	966.0
30°	1024.8	1028.8	1031.6	1033.6	1032.8	1036.4	1037.6	1037.2	1036.0	1038.0	1038.0
32.5°	1106.8	1104.8	1112.0	1116.4	1116.8	1116.0	1118.0	1120.4	1118.4	1121.6	1120.0
35°	1204.4	1205.6	1207.2	1212.0	1214.0	1210.8	1214.0	1216.8	1216.0	1216.4	1218.0
37.5°	1330.4	1332.4	1330.8	1331.2	1330.4	1345.6	1348.0	1350.4	1347.6	1345.2	1352.4
40°	1505.2	1505.2	1504.8	1510.0	1501.2	1510.8	1508.0	1514.8	1522.0	1518.0	1528.8
42.5°	1677.2	1686.8	1687.6	1680.0	1686.4	1696.8	1696.8	1701.2	1707.6	1701.2	1711.6
45°	1874.4	1886.4	1884.4	1897.2	1887.6	1899.6	1901.6	1896.0	1910.0	1911.6	1907.6
47.5°	2089.6	2092.0	2092.4	2096.8	2098.8	2108.4	2108.0	2118.4	2115.2	2099.2	2104.8
50°	2274.0	2280.0	2283.2	2286.0	2296.0	2302.8	2312.0	2313.6	2311.2	2306.4	2302.0
52.5°	2458.4	2472.8	2482.0	2506.8	2522.4	2534.8	2550.0	2555.6	2552.8	2551.6	2534.0
55°	2705.2	2739.6	2792.8	2827.2	2864.8	2886.8	2904.4	2913.2	2906.8	2910.0	2873.6
57.5°	3170.0	3250.8	3297.2	3356.0	3422.4	3450.0	3457.6	3488.8	3454.4	3420.0	3392.4
60°	3860.8	3935.2	4019.6	4080.0	4102.4	4178.8	4142.8	4102.4	4065.6	3994.4	3914.0
62.5°	4484.4	4580.4	4623.6	4680.0	4664.8	4658.4	4634.4	4570.0	4491.2	4385.2	4278.0
65°	4792.0	4846.0	4872.8	4891.2	4874.0	4829.6	4750.4	4655.2	4542.4	4405.2	4264.4
67°	4804.4	4829.2	4838.0	4820.4	4782.0	4712.8	4612.8	4478.0	4339.2	4182.0	4023.6
67.5°	4784.0	4800.4	4804.8	4777.2	4731.6	4656.8	4550.0	4406.0	4258.4	4095.2	3936.0
70°	4505.6	4493.6	4454.8	4416.8	4274.4	4174.0	3988.0	3834.4	3629.6	3479.6	3309.6
72.5°	3660.4	3605.6	3568.0	3400.0	3228.0	3128.4	2928.4	2744.8	2558.0	2415.2	2310.8
75°	2054.8	2014.8	1910.4	1821.6	1679.6	1549.6	1456.4	1339.6	1227.6	1161.2	1112.4
77.5°	928.4	814.0	735.2	635.6	513.6	412.8	306.4	283.2	241.6	231.2	208.4
80°	724.4	642.4	539.2	425.2	300.0	201.6	148.0	125.6	118.0	113.2	110.8
82.5°	604.4	498.0	419.2	297.6	190.4	128.0	96.4	87.2	81.6	77.6	74.0
85°	258.4	204.4	168.4	120.4	85.6	67.6	59.2	54.0	48.8	44.4	41.6
87.5°	60.4	46.4	42.4	36.0	34.0	33.6	33.2	31.6	29.6	27.2	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6	631.6
2.5°	635.6	635.2	634.4	633.2	633.2	631.6	626.4	622.8	618.8	616.4	614.0
5°	646.4	646.0	644.0	642.8	642.0	638.8	630.0	623.2	616.0	610.8	606.8
7.5°	664.4	663.2	661.6	660.8	658.4	654.4	641.6	632.0	621.6	613.2	606.4
10°	693.6	691.6	689.2	686.8	687.6	681.2	666.4	652.4	637.2	624.0	614.8
12.5°	729.2	729.2	728.0	726.4	723.6	716.4	696.4	680.0	661.6	645.2	638.4
15°	766.8	764.8	762.8	760.4	760.0	750.4	732.4	713.6	694.4	680.4	672.4
17.5°	797.6	798.4	795.6	794.8	794.0	784.4	765.2	748.4	734.4	719.6	706.8
20°	830.4	828.8	828.0	826.8	826.4	818.4	803.2	792.8	780.4	758.0	724.4
22.5°	865.6	863.6	864.4	862.0	861.6	856.0	844.8	841.6	823.2	776.0	717.6
25°	911.2	907.6	908.8	908.8	909.2	904.0	902.8	897.2	850.8	771.6	690.4
27.5°	965.6	967.2	967.2	966.8	964.0	965.6	971.2	952.0	860.4	748.4	649.6
30°	1036.4	1037.2	1038.0	1040.8	1034.8	1045.2	1052.0	990.8	853.2	716.4	598.4
32.5°	1122.4	1119.2	1120.8	1122.4	1124.4	1135.2	1131.2	1010.4	832.0	672.8	534.8
35°	1217.2	1223.2	1224.8	1228.4	1232.4	1248.8	1202.8	1014.4	799.6	614.4	453.6
37.5°	1358.4	1368.0	1368.0	1380.8	1373.2	1393.2	1266.8	1004.8	750.4	533.2	362.0
40°	1536.4	1540.8	1545.2	1546.8	1542.8	1540.4	1308.8	981.2	681.2	431.2	264.8
42.5°	1718.0	1716.4	1716.8	1719.6	1708.8	1663.6	1334.8	940.0	595.2	322.0	190.0
45°	1913.6	1906.8	1904.8	1899.2	1889.6	1794.4	1349.6	882.0	482.0	226.4	149.2
47.5°	2104.0	2095.6	2082.8	2067.2	2048.8	1899.6	1348.0	806.8	369.6	162.0	131.6
50°	2299.2	2284.4	2256.8	2241.6	2210.4	2004.0	1338.8	723.2	266.0	134.0	123.2
52.5°	2522.4	2496.0	2470.4	2440.0	2388.4	2132.4	1324.8	629.2	194.0	122.8	117.6
55°	2855.2	2812.0	2770.0	2706.8	2656.8	2304.4	1301.2	528.0	153.2	118.4	114.4
57.5°	3314.0	3240.4	3187.2	3102.0	3022.0	2542.4	1276.0	436.0	136.8	117.2	112.8
60°	3830.4	3719.6	3620.4	3515.6	3424.4	2839.6	1262.8	364.0	133.2	118.4	113.2
62.5°	4154.4	4023.6	3899.6	3771.6	3640.4	2981.6	1205.6	314.4	134.8	123.6	116.4
65°	4113.6	3969.2	3834.4	3678.4	3554.8	2847.6	1060.0	266.0	137.6	132.8	125.2
67°	3838.4	3698.4	3544.8	3392.0	3272.0	2592.8	894.8	224.0	140.8	143.2	134.8
67.5°	3764.8	3607.2	3452.4	3312.0	3182.0	2514.0	851.6	213.6	141.6	146.0	138.0
70°	3139.6	3014.8	2833.6	2729.6	2635.6	2038.0	635.2	166.0	144.0	158.4	153.2
72.5°	2196.8	2076.0	1981.2	1924.4	1869.6	1480.8	446.8	132.4	140.4	165.2	160.0
75°	1109.6	1082.0	1048.8	1030.4	1031.2	860.8	269.2	112.8	132.0	158.4	145.2
77.5°	219.2	213.6	216.0	236.4	232.8	265.2	133.6	95.6	112.4	122.0	104.4
80°	106.0	102.4	99.2	98.4	96.4	92.4	84.0	79.6	91.2	80.4	69.2
82.5°	68.8	64.8	63.2	60.0	60.4	65.6	73.2	76.4	74.0	55.6	46.8
85°	38.8	38.4	37.6	38.4	40.0	52.4	78.4	71.6	59.6	39.2	35.2
87.5°	23.2	22.0	22.4	22.8	23.6	38.8	62.0	51.6	38.0	20.4	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	631.6	631.6	631.6	631.6
2.5°	613.6	612.0	612.0	611.6
5°	603.6	601.2	600.8	600.8
7.5°	602.0	598.8	598.4	597.2
10°	609.2	608.0	608.4	607.2
12.5°	632.0	633.6	635.2	635.2
15°	666.8	665.6	667.6	665.6
17.5°	692.4	682.0	679.6	678.4
20°	693.2	671.6	664.4	663.2
22.5°	668.4	636.4	624.4	622.4
25°	626.4	586.0	570.8	569.2
27.5°	573.6	528.4	506.0	505.2
30°	510.0	456.4	428.0	423.6
32.5°	432.4	368.8	338.8	329.2
35°	342.8	277.6	249.6	248.8
37.5°	256.0	205.2	187.2	186.4
40°	187.6	161.2	154.4	153.2
42.5°	153.2	142.4	139.6	138.4
45°	137.2	132.8	131.2	130.0
47.5°	127.6	124.8	123.6	123.6
50°	120.0	119.2	118.4	118.4
52.5°	114.8	114.4	113.6	113.2
55°	110.4	108.8	109.2	108.8
57.5°	107.6	105.2	105.2	105.2
60°	106.0	101.6	101.6	102.0
62.5°	106.4	99.6	99.2	99.2
65°	109.6	98.4	96.0	96.4
67°	113.6	97.2	92.4	92.0
67.5°	114.8	96.4	91.2	90.8
70°	119.6	94.0	85.2	84.4
72.5°	120.4	90.4	79.2	78.4
75°	112.0	85.6	74.4	72.4
77.5°	87.2	73.6	67.2	67.2
80°	61.2	56.4	48.0	47.6
82.5°	44.8	42.4	35.2	34.4
85°	32.8	30.8	26.0	26.0
87.5°	20.4	19.6	16.8	16.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)